

Before the
FEDERAL COMMUNICATIONS COMMISSION
Washington, D.C. 20554

ORIGINAL

In the Matter of) MM Docket No. _____
)
Amendment of Section 73.202(b)) RM-_____
FM Table of Assignments)
(Grand Junction, Colorado))

TO: John A. Karousos, Chief, Allocations Branch
Policy and Rules Division, Mass Media Bureau

RECEIVED

DEC 1 4 1994

FEDERAL COMMUNICATIONS COMMISSION
OFFICE OF SECRETARY

PETITION FOR RULE MAKING
AND
REQUEST FOR MODIFICATION OF PERMIT

1. Pursuant to Section 1.420 of the Commission's Rules, Grand Valley Public Radio Company, Inc. ("Grand Valley"), permittee (File No. BPED-930702MB) of noncommercial educational FM Station KAFM(FM), Grand Junction, Colorado, hereby petitions the Commission to make the following changes in the FM Table of Assignments, Section 73.202(b) of the Commission's Rules:

<u>Community</u>	<u>Current Channel Assignments</u>	<u>Proposed Channel Assignments</u>
Grand Junction, CO	222C, 226C, 282C, 300C	222C, 226C, 264C1, 282C, 300C

Moreover, in view of the fact (discussed below) that a number of full Class C channels are available for assignment to Grand Junction, Grand Valley also hereby requests that its permit be modified herein to specify operation on Channel 264C1.

2. Grand Valley is authorized by the terms of its construction permit to operate on Channel 201A at the extremely low power of 0.016 kW. At Grand Valley's request, an exhaustive

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search for possible means of increasing its potential facilities has been undertaken. The results are set forth in the accompanying Technical Statement. As indicated therein, because of the somewhat unusual allotment of existing stations operating in the noncommercial reserved portion of the FM band, it is virtually impossible for Grand Valley to increase its facilities on its present, or any other, noncommercial channel.

3. By contrast, also as demonstrated in the accompanying Technical Statement, a non-reserved channel is available which would permit Grand Valley to operate with Class C-1 facilities: Channel 264C1 could be assigned to Grand Junction. In this Petition, Grand Valley is seeking to have Channel 264C1 assigned to Grand Junction and the permit of Station KAFM(FM) modified to specify operation on Channel 264C1 as a Class C1 station. Such an approach is specifically contemplated by Section 1.420(g) of the Commission's Rules, as other non-reserved channels of equivalent or greater class can be assigned to Grand Valley.

4. Grand Valley wishes to note that, notwithstanding its proposed use of a non-reserved channel, Grand Valley continues to intend to offer a noncommercial educational programming service consistent with the Commission's rules governing noncommercial broadcast stations. Nevertheless, Grand Valley does not understand that its election to provide such a service would necessarily require that the proposed channel

itself be designated a "reserved" channel limited solely to noncommercial operation. That is, as Grand Valley understands the rules, the channel could be assigned as a standard, garden-variety Class C1 commercial channel, and Grand Valley's noncommercial FM permit could then be modified to specify noncommercial operation on that Class C1 channel. ^{1/}

5. Grand Valley's proposal would permit a substantial increase in the efficient use of the spectrum which would be consistent with the Commission's statutory mandate to maximize the efficient use of the broadcast spectrum. See 47 U.S.C. §307(b). While Grand Valley's present authorization would permit primary (60 dBu, or 1 mV/m) service to approximately 426 square kilometers with an estimated population of fewer than 34,000 persons, its proposed upgrade would increase its primary service area to more than 15,000 square kilometers, with a population of almost 105,000. That would represent an increase in area served of 3,566%, and an increase in population served of 310%. Such increases are plainly in the public interest and consistent with the Communications Act.

6. Grand Valley specifically commits to prompt construction and operation of its station upon grant of the instant proposal.

WHEREFORE, for the reasons stated, Grand Valley Public

^{1/} Grand Valley hastens to note that it would have no objection to a restriction limiting use of the channel to noncommercial service -- that, after all, is how Grand Valley intends to use it.

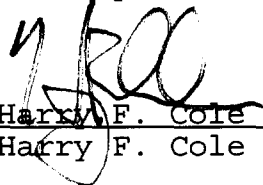
Radio Company, Inc. hereby petitions the Commission to make the following change in the FM Table of Assignments,

Section 73.202(b) of the Commission's Rules:

<u>Community</u>	<u>Current Channel Assignments</u>	<u>Proposed Channel Assignments</u>
Grand Junction, CO	222C, 226C, 282C, 300C	222C, 226C, 264C1, 282C, 300C

Further, Grand Valley requests that, simultaneously with adoption of these proposed changes in the Table of Assignments, the Commission modify its outstanding construction permit to specify noncommercial operation on newly-assigned Channel 264C1.

Respectfully submitted,


/s/ Harry F. Cole
Harry F. Cole

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Counsel for Grand Valley Public
Radio Company, Inc.

December 14, 1994

**TECHNICAL STATEMENT
IN SUPPORT OF PETITION FOR RULE MAKING
SUBSTITUTION OF CHANNEL 264-C1 FOR 201-A
GRAND VALLEY PUBLIC RADIO COMPANY, INC.
GRAND JUNCTION, COLORADO**

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PREPARED BY:

BROADCAST TECHNICAL, INC.

BRONX, NEW YORK

October 1994

**TECHNICAL STATEMENT
IN SUPPORT OF PETITION FOR RULE MAKING
SUBSTITUTION OF CHANNEL 264-C1 FOR 201-A
GRAND VALLEY PUBLIC RADIO COMPANY, INC.
GRAND JUNCTION, COLORADO**

INTRODUCTION

This technical statement and associated exhibits have been prepared on behalf of Grand Valley Public Radio Company, Inc. (herein "petitioner"), permittee of reserved educational FM channel 201-A, Permit No: BPED- 930702MB, call sign KAFM, Grand Junction, Colorado, in support of a Petition for Rule Making.

Petitioner herein request modification of the FM Table of Allotments, 47 CFR 73202(b) as follows: substitution of channel 264-C1 for 201-A in Grand Junction, Colorado. Petitioner further requests that the new allocation (264-C1) be classified as a reserved channel for educational use.

The instant exhibit includes detailed analysis of each of the twenty reserved educational channels illustrating the allocation conflicts which preclude the use of a reserved channel to provide a new Grand Junction service except at the very low power (0.016 kW) authorized for KAFM in BPED-930702MB, to serve Grand Junction.

Also included herein is analysis and illustration showing that three high powered commercial channels are presently open and available for allocation to the Grand Junction area. Petitioner is requesting substitution of channel 264-C1 for its presently authorized channel 201-A leaving two full class C channels available for future allocations.

ANALYSIS OF RESERVED BAND CHANNELS FOR GRAND JUNCTION

Figures 1A through 20A are channel allocation studies of each of the twenty reserved band FM channels. Detailed herein is analysis of these studies on a channel

by channel basis.

Channel 201, (Figure 1A) is limited at the proposed reference site to .016 kw in order to protect KCIC on channel 203. Other sites in and around the Grand Junction area have been studied with no greater power level available. Protecting KCIC will not allow more power to be radiated over Grand Junction, with or without directional antennas or alternative transmitter sites.

Channel 202, (Figure 2A) is precluded from use in the Grand Junction area by first adjacent KCIC on channel 203.

Channel 203, (Figure 3A) is precluded from use in the Grand Junction area by KCIC co-channel on channel 203.

Channel 204, (Figure 4A) is precluded from use in the Grand Junction area by first adjacent KCIC on channel 203.

Channel 205, (Figure 5A) is precluded from use in the Grand Junction area by third adjacent KPRN on channel 208.

Channel 206, (Figure 6A) is precluded from use in the Grand Junction area by second adjacent KPRN on channel 208.

Channel 207, (Figure 7A) is precluded from use in the Grand Junction area by first adjacent KPRN on channel 208.

Channel 208, (Figure 7A) is precluded from use in the Grand Junction area by co-channel KPRN on channel 208.

Channel 209, (Figure 9A) is precluded from use in the Grand Junction area by first adjacent KPRN on channel 208, and by third adjacent KJOL on channel 212.

Channel 210, (Figure 10A) is precluded from use in the Grand Junction area by second adjacent KPRN on channel 208, and by second adjacent KJOL on channel 212.

Channel 211, (Figure 11A) is precluded from use in the Grand Junction area by third adjacent KPRN on channel 208, and by first adjacent KJOL on channel 212.

Channel 212, (Figure 12A) is precluded from use in the Grand Junction area by by co-channel KJOL on channel 212.

Channel 213, (Figure 13A) is precluded from use in the Grand Junction area by by first adjacent KJOL on channel 212.

Channel 214, (Figure 14A) is precluded from use in the Grand Junction area by by second adjacent KJOL on channel 212, and by third adjacent KMSA on channel 217.

Channel 215, (Figure 15A) is precluded from use in the Grand Junction area by by third adjacent KJOL on channel 212, and by second adjacent KMSA on channel 217.

Channel 216, (Figure 16A) is precluded from use in the Grand Junction area by by first adjacent KMSA on channel 217.

Channel 217, (Figure 17A) is precluded from use in the Grand Junction area by by co-channel KMSA on channel 217.

Channel 218, (Figure 18A) is precluded from use in the Grand Junction area by by first adjacent KMSA on channel 217.

Channel 219, (Figure 19A) is precluded from use in the Grand Junction area by by second adjacent KMSA on channel 217, and by third adjacent KJYE on channel 222 in the unreserved portion of the FM band.

Channel 220, (Figure 20A) is precluded from use in the Grand Junction area by by third adjacent KMSA on channel 217, and by second adjacent KJYE on channel 222 in the unreserved portion of the FM band.

PROPOSED REFERENCE POINT

The following reference point has been selected for all three available FM channels for purposes of illustrating compliance with the requisite 70 dBu coverage of Grand Junction (see Figures 24, 27 and 30) in compliance with 47 CFR 73.315.

Latitude: 39-03-59
Longitude: 108-44-39

Figures 21 and 21A illustrate the location of the proposed reference point on a USGS 7.5 minute topographic map. The proposed reference point is a BLM Communications site, and is the same site authorized for KAFM's permitted operation of Channel 201-A. Operation from this site, or in the adjacent area, with maximum Class C-1 or Class C facilities would provide the requisite 70 dBu coverage of Grand Junction (see Figures 24, 27, and 30) in compliance with 47 CFR 73.315.

VACANT CHANNEL 264-C1, COMPLIANCE WITH FCC RULES

The following reference point has been selected for the study of channel 264-C1 at Grand Junction:

Latitude: 39-03-59
Longitude: 108-44-39

This site is also KAFM's presently authorized antenna site for its proposed operation on channel 201-A.

Figure 22 is a tabulation of a detailed FM separation study pertinent to the use of channel 264-C1 at Grand Junction by petitioner.

The proposed reference point is not located within 320 kilometers of a U.S. border and, therefore, foreign concurrence is not required. The proposed reference point complies with the Commission's minimum distance separation requirements for Class C1 facilities contained in 47 CFR 73.207 to all known Licenses, Construction Permits, Open Allocations, pending Applications, and pending Rule Makings.

Figure 23 is a tabulation of terrain data and 70 dBu coverage contour for a theoretical C1 operation utilizing maximum power and height for that class. Figure 24 illustrates 70 dBu coverage of Grand Junction and is derived from the data in Figure 23.

The presently permitted KAFM operation would provide primary (60 dBu, 1mV/m) service to a land area of approximately 426 square kilometers containing an estimated population (1990 census) of 33,790 persons.

Operation from the proposed reference point with maximum Class C1 facilities would provide FM primary service to a land area of approximately 15,190 square kilometers containing an estimated population of 104,909 persons (1990 census). This represents an increase in land area of 3,566%, and an increase in population of 310%.

VACANT CHANNEL 277-C, COMPLIANCE WITH FCC RULES

The following reference point has been selected for the study of channel 277-C at Grand Junction:

Latitude: 39-03-59
Longitude: 108-44-39

This site is also KAFM's presently authorized antenna site for its proposed operation on channel 201-A.

Figure 25 is a tabulation of a detailed FM separation study pertinent to the use of channel 277-C at Grand Junction.

The proposed reference point is not located within 320 kilometers of a U.S. border and, therefore, foreign concurrence is not required. The proposed reference point complies with the Commission's minimum distance separation requirements for Class C facilities contained in 47 CFR 73.207 to all known Licenses, Construction Permits, Open Allocations, pending Applications, and pending Rule Makings.

Figure 26 is a tabulation of terrain data and 70 dBu coverage contour for a theoretical "class C" operation utilizing maximum power and height for that class. Figure 27 illustrates 70 dBu coverage of Grand Junction and is derived from the data in Figure 26.

Operation from the proposed reference point with maximum Class C facilities would provide FM primary service to a land area of approximately 25,136 square kilometers containing an estimated population of 123,619 persons (1990 census).

VACANT CHANNEL 293-C, COMPLIANCE WITH FCC RULES

The following reference point has been selected for the study of channel 293-C at Grand Junction:

Latitude: 39-03-59
Longitude: 108-44-39

This site is also KAFM's presently authorized antenna site for its proposed operation on channel 201-A.

Figure 28 is a tabulation of a detailed FM separation study pertinent to the use of channel 293-C at Grand Junction.

The proposed reference point is not located within 320 kilometers of a U.S. border and, therefore, foreign concurrence is not required. The proposed reference point complies with the Commission's minimum distance separation requirements for Class C facilities contained in 47 CFR 73.207 to all known Licenses, Construction Permits, Open Allocations, pending Applications, and pending Rule Makings.

Figure 29 is a tabulation of terrain data and 70 dBu coverage contour for a theoretical "class C" operation utilizing maximum power and height for that class. Figure 30 illustrates 70 dBu coverage of Grand Junction and is derived from the data in Figure 29.

Operation from the proposed reference point with maximum Class C facilities would provide FM primary service to a land area of approximately 25,136 square kilometers containing an estimated population of 123,619 persons (1990 census).

CONCLUSION

Petitioner can exchange its presently permitted reserved band channel (201-A) for channel 264-C1 resulting in a new, fully spaced class C1 facility serving Grand Junction, Colorado resulting in an increase in land area and population served of 3,566% and 310% respectively. This exchange can be accomplished without affecting two additional unused channels available as class C facilities which could be utilized by other interested parties.

All three available channels illustrated herein can be allocated in compliance with all applicable Commission Rules. Significant increases in land areas and population served by KAFM would be achieved by the changes proposed herein without affecting any other known Licenses, Construction Permits, Open Allocations, pending Applications, and pending Rule Makings.

**Respectfully Submitted,
Broadcast Technical, Inc.**

By: 

Kenneth Devine

October 28, 1994

FIGURE 1A
CHANNEL 201A PRECLUSION STUDY

CH# 201A - 88.1 MHz

INTERFERENCE CHECKS WITH PROPOSED STATION AT GRAND JUNCTION, CO at N. LAT. 39 03 59 W. LNG. 108 44 39

PWR = .1 kW H.A.A.T. = 380 M C.O.R. = 2166 M AMSL

Protected F(50-50) 60 dBu = 20.19 km

F(50-10) 40 dBu = 64.3 54 dBu = 30.21 80 dBu = 5.34 100 dBu = .7

CH#	CALL	TYPE	* IN *	* OUT *	BEARING	DISTANCE	LAT.	PWR(kW)	INT(km)	PRO(km)
CITY		STATE	LICENSEE		<---		LNG.	HAAT(M)	COR(M)	FILE #
201A	KAFM.C	CP CN	-63.5	-77.1	0.0	0.00 km	39 03 59	0.02	43.28	12.75
Grand Junction		CO	Grand Valley Public Radio		180.0	0.00 Mi	108 44 39	380.0	2166	BPED930702MB
203A	KCIC	LI CN	-2.5	6.7	86.6	20.25 km	39 04 38	0.44	2.60	8.21
Grand Junction		CO	Pear Park Baptist Schools		266.6	12.58 Mi	108 30 38	-146.0	1424	BLED790206AJ

i.f. RELATIONSHIPS: NONE FOUND

- Nearest CH 6 Grade B =KREZTVat 158.97 km

FIGURE 2A
CHANNEL 202A PRECLUSION STUDY

CH# 202A - 88.3 MHz

INTERFERENCE CHECKS WITH PROPOSED STATION AT GRAND JUNCTION, CO at N. LAT. 39 03 59 W. LNG. 108 44 39

PWR = .1 kW H.A.A.T. = 380 M C.O.R. = 2166 M AMSL

Protected F(50-50) 60 dBu = 20.19 km

F(50-10) 40 dBu = 64.3 54 dBu = 30.21 80 dBu = 5.34 100 dBu = .7

CH#	CALL	TYPE	* IN *	* OUT *	BEARING	DISTANCE	LAT.	PWR(kW)	INT(km)	PRO(km)
CITY	STATE	LICENSEE			<---		LNG.	HAAT(M)	COR(M)	FILE #
201A	KAFM.C	CP CN	-39.0	-43.0	0.0	0.00 km	39 03 59	0.02	18.81	12.75
Grand Junction	CO	Grand Valley Public Radio			180.0	0.00 Mi	108 44 39	380.0	2166	BPED930702MB
203A	KCIC	LI CN	-11.6	-18.2	86.6	20.25 km	39 04 38	0.44	11.63	8.21
Grand Junction	CO	Pear Park Baptist Schools			266.6	12.58 Mi	108 30 38	-146.0	1424	BLED790206AJ
205A	AP205	AP CN	189.8	199.9	84.3	213.78 km	39 15 23	3.00	3.84	13.22
Leadville	CO	Leadville Community Broadc			264.3	132.84 Mi	106 16 58	-141.0	3190	BPED930201MC

FCC Comment > Amended 930618-Application Dismissed 940706

i.f. RELATIONSHIPS: NONE FOUND

- Nearest CH 6 Grade B =KREZTVat 158.97 km

FIGURE 3A
CHANNEL 203A PRECLUSION STUDY

CH# 203A - 88.5 MHz

INTERFERENCE CHECKS WITH PROPOSED STATION AT GRAND JUNCTION, CO at N. LAT. 39 03 59 W. LNG. 108 44 39

PWR = .1 kW H.A.A.T. = 380 M C.O.R. = 2166 M AMSL

Protected F(50-50) 60 dBu = 20.19 km

F(50-10) 40 dBu = 64.3 54 dBu = 30.21 80 dBu = 5.34 100 dBu = .7

CH#	CALL	TYPE	* IN *	* OUT *	BEARING	DISTANCE	LAT.	PWR(kW)	INT(km)	PRO(km)
CITY	STATE	LICENSEE			<---		LNG.	HAAT(M)	COR(M)	FILE #
201A	KAFM.C	CP CN	-22.8	-18.1	0.0	0.00 km	39 03 59	0.02	2.56	12.75
Grand Junction	CO	Grand Valley Public Radio			180.0	0.00 Mi	108 44 39	380.0	2166	BPED930702MB
203A	KCIC	LI CN	-27.5	-52.3	86.6	20.25 km	39 04 38	0.44	27.55	8.21
Grand Junction	CO	Pear Park Baptist Schools			266.6	12.58 Mi	108 30 38	-146.0	1424	BLED790206AJ
205A	AP205	AP CN	189.5	195.2	84.3	213.78 km	39 15 23	3.00	4.13	13.22
Leadville	CO	Leadville Community Broadc			264.3	132.84 Mi	106 16 58	-141.0	3190	BPED930201MC
FCC Comment > Amended 930618-Application Dismissed 940706										
206A	AP206	AP CN	106.8	98.5	33.7	130.17 km	40 02 31	100.00	3.15	30.97
Meeker	CO	White River Electric Assoc			213.7	80.88 Mi	107 54 15	-162.0	1934	910116MU

i.f. RELATIONSHIPS: NONE FOUND

- Nearest CH 6 Grade B =KREZTVat 158.97 km

FIGURE 4A
CHANNEL 204A PRECLUSION STUDY

CH# 204A - 88.7 MHz

INTERFERENCE CHECKS WITH PROPOSED STATION AT GRAND JUNCTION, CO at N. LAT. 39 03 59 W. LNG. 108 44 39

PWR = .1 kW H.A.A.T. = 380 M C.O.R. = 2166 M AMSL

Protected F(50-50) 60 dBu = 20.19 km

F(50-10) 40 dBu = 64.3 54 dBu = 30.21 80 dBu = 5.34 100 dBu = .7

CH#	CALL	TYPE	* IN *	* OUT *	BEARING	DISTANCE	LAT.	PWR(kW)	INT(km)	PRO(km)
CITY	STATE	LICENSEE			<---		LNG.	HAAT(M)	COR(M)	FILE #
201A	KAFM.C	CP CN	-20.5	-13.4	0.0	0.00 km	39 03 59	0.02	0.28	12.75
Grand Junction	CO	Grand Valley Public Radio			180.0	0.00 Mi	108 44 39	380.0	2166	BPED930702MB
203A	KCIC	LI CN	-11.6	-18.2	86.6	20.25 km	39 04 38	0.44	11.63	8.21
Grand Junction	CO	Pear Park Baptist Schools			266.6	12.58 Mi	108 30 38	-146.0	1424	BLE0790206AJ
205A	AP205	AP CN	174.1	170.4	84.3	213.78 km	39 15 23	3.00	19.53	13.22
Leadville	CO	Leadville Community Broadc			264.3	132.84 Mi	106 16 58	-141.0	3190	BPED930201MC
FCC Comment > Amended 930618-Application Dismissed 940706										
206A	AP206	AP CN	99.8	93.9	33.7	130.17 km	40 02 31	100.00	10.16	30.97
Meeker	CO	White River Electric Assoc			213.7	80.88 Mi	107 54 15	-162.0	1934	910116MU

i.f. RELATIONSHIPS: NONE FOUND

- Nearest CH 6 Grade B =KREZTVat 158.97 km

FIGURE 5A
CHANNEL 205A PRECLUSION STUDY

CH# 205A - 88.9 MHz

INTERFERENCE CHECKS WITH PROPOSED STATION AT GRAND JUNCTION, CO at N. LAT. 39 03 59 W. LNG. 108 44 39

PWR = .1 kW H.A.A.T. = 380 M C.O.R. = 2166 M AMSL

Protected F(50-50) 60 dBu = 20.19 km

F(50-10) 40 dBu = 64.3 54 dBu = 30.21 80 dBu = 5.34 100 dBu = .7

CH#	CALL	TYPE	* IN *	* OUT *	BEARING	DISTANCE	LAT.	PWR(kW)	INT(km)	PRO(km)
CITY	STATE	LICENSEE			<---		LNG.	HAAT(M)	COR(M)	FILE #
203A	KCIC	LI CN	-2.5	6.7	86.6	20.25 km	39 04 38	0.44	2.60	8.21
Grand Junction	CO	Pear Park Baptist Schools			266.6	12.58 Mi	108 30 38	-146.0	1424	BLED790206AJ
205A	AP205	AP CN	140.3	136.3	84.3	213.78 km	39 15 23	3.00	53.28	13.22
Leadville	CO	Leadville Community Broadc			264.3	132.84 Mi	106 16 58	-141.0	3190	BPED930201MC
FCC Comment > Amended 930618-Application Dismissed 940706										
206A	AP206	AP CN	50.9	69.0	33.7	130.17 km	40 02 31	100.00	59.06	30.97
Meeker	CO	White River Electric Assoc			213.7	80.88 Mi	107 54 15	-162.0	1934	910116MU
208C1	KPRN	LI CY	-25.3	-54.7	247.0	0.16 km	39 03 57	10.00	5.28	54.15
Grand Junction	CO	Public Broadcasting of Col			67.0	0.10 Mi	108 44 45	363.0	2144	BLED860327KH

i.f. RELATIONSHIPS: NONE FOUND

- Nearest CH 6 Grade B =KREZTVat 158.97 km

FIGURE 6A
CHANNEL 206A PRECLUSION STUDY

CH# 206A - 89.1 MHz

INTERFERENCE CHECKS WITH PROPOSED STATION AT GRAND JUNCTION, CO at N. LAT. 39 03 59 W. LNG. 108 44 39

PWR = .1 kW H.A.A.T. = 380 M C.O.R. = 2166 M AMSL

Protected F(50-50) 60 dBu = 20.19 km

F(50-10) 40 dBu = 64.3 54 dBu = 30.21 80 dBu = 5.34 100 dBu = .7

CH#	CALL	TYPE	* IN *	* OUT *	BEARING	DISTANCE	LAT.	PWR(kW)	INT(km)	PRO(km)
CITY	STATE	LICENSEE			<---		LNG.	HAAT(M)	COR(M)	FILE #
203A	KCIC	LI CN	-1.4	11.3	86.6	20.25 km	39 04 38	0.44	1.47	8.21
Grand Junction	CO	Pear Park Baptist Schools			266.6	12.58 Mi	108 30 38	-146.0	1424	BLED790206AJ
205A	AP205	AP CN	174.1	170.4	84.3	213.78 km	39 15 23	3.00	19.53	13.22
Leadville	CO	Leadville Community Broadc			264.3	132.84 Mi	106 16 58	-141.0	3190	BPED930201MC
FCC Comment > Amended 930618-Application Dismissed 940706										
206A	AP206	AP CN	-20.7	34.9	33.7	130.17 km	40 02 31	100.00	130.70	30.97
Meeker	CO	White River Electric Assoc			213.7	80.88 Mi	107 54 15	-162.0	1934	910116MU
208C1	KPRN	LI CY	-40.8	-59.3	247.0	0.16 km	39 03 57	10.00	20.75	54.15
Grand Junction	CO	Public Broadcasting of Col			67.0	0.10 Mi	108 44 45	363.0	2144	BLED860327KH
209A	KZMU	LI CN	67.7	82.2	229.3	88.57 km	38 32 47	0.10	0.70	5.64
Moab	UT	Moab Public Radio			49.3	55.03 Mi	109 31 03	-177.0	1349	BLED920619KC
i.f. RELATIONSHIPS:										
260C	KEKB	LI CN	29.0 R	-28.7 M	253.6	0.33 km	39 03 56	79.00	11.10	78.96
Fruita	CO	Jan-Di Broadcasting, Inc.			73.6	0.21 Mi	108 44 52	422.0	2220	BLH840604CP

- Nearest CH 6 Grade B =KREZTVat 158.97 km

FIGURE 7A
CHANNEL 207A PRECLUSION STUDY

CH# 207A - 89.3 MHz

INTERFERENCE CHECKS WITH PROPOSED STATION AT GRAND JUNCTION, CO at N. LAT. 39 03 59 W. LNG. 108 44 39

PWR = .1 kW H.A.A.T. = 380 M C.O.R. = 2166 M AMSL

Protected F(50-50) 60 dBu = 20.19 km

F(50-10) 40 dBu = 64.3 54 dBu = 30.21 80 dBu = 5.34 100 dBu = .7

CH#	CALL	TYPE	* IN *	* OUT *	BEARING	DISTANCE	LAT.	PWR(kW)	INT(km)	PRO(km)
CITY	STATE	LICENSEE			<---		LNG.	HAAT(M)	COR(M)	FILE #
205A	AP205	AP CN	189.5	195.2	84.3	213.78 km	39 15 23	3.00	4.13	13.22
Leadville	CO	Leadville Community Broadc	264.3	132.84 Mi	106 16 58	-141.0	3190	BPED930201MC		
FCC Comment > Amended 930618-Application Dismissed 940706										
206A	AP206	AP CN	50.9	69.0	33.7	130.17 km	40 02 31	100.00	59.06	30.97
Meeker	CO	White River Electric Assoc	213.7	80.88 Mi	107 54 15	-162.0	1934	910116HU		
208C1	KPRN	LI CY	-99.9	-84.2	247.0	0.16 km	39 03 57	10.00	79.92	54.15
Grand Junction	CO	Public Broadcasting of Col	67.0	0.10 Mi	108 44 45	363.0	2144	BLED860327KH		
209A	KZMU	LI CN	66.6	77.6	229.3	88.57 km	38 32 47	0.10	1.82	5.64
Moab	UT	Moab Public Radio	49.3	55.03 Mi	109 31 03	-177.0	1349	BLED920619KC		
210A	KPRE.C	CP CN	185.0	193.4	72.3	207.92 km	39 38 08	1.50	2.72	13.84
Vail	CO	Public Broadcasting of Col	252.3	129.20 Mi	106 26 46	47.0	2960	BPED920611MJ		
i.f. RELATIONSHIPS:										
260C	KEKB	LI CN	29.0 R	-28.7 M	253.6	0.33 km	39 03 56	79.00	11.10	78.96
Fruita	CO	Jan-Di Broadcasting, Inc.	73.6	0.21 Mi	108 44 52	422.0	2220	BLH840604CP		

- Nearest CH 6 Grade B =KREZTVat 158.97 km

FIGURE 8A
CHANNEL 208A PRECLUSION STUDY

CH# 208A - 89.5 MHz

INTERFERENCE CHECKS WITH PROPOSED STATION AT GRAND JUNCTION, CO at N. LAT. 39 03 59 W. LNG. 108 44 39

PWR = .1 kW H.A.A.T. = 380 M C.O.R. = 2166 M AMSL

Protected F(50-50) 60 dBu = 20.19 km

F(50-10) 40 dBu = 64.3 54 dBu = 30.21 80 dBu = 5.34 100 dBu = .7

CH#	CALL	TYPE	* IN *	* OUT *	BEARING	DISTANCE	LAT.	PWR(kW)	INT(km)	PRO(km)
CITY	STATE	LICENSEE			<---		LNG.	HAAT(M)	COR(M)	FILE #
205A	AP205	AP CN	189.8	199.9	84.3	213.78 km	39 15 23	3.00	3.84	13.22
Leadville	CO	Leadville Community Broadc	264.3		132.84 Mi	106 16 58		-141.0	3190	BPED930201MC
FCC Comment > Amended 930618-Application Dismissed 940706										
206A	AP206	AP CN	99.8	93.9	33.7	130.17 km	40 02 31	100.00	10.16	30.97
Meeker	CO	White River Electric Assoc	213.7		80.88 Mi	107 54 15		-162.0	1934	910116MU
208C1	KPRN	LI CY	-149.7	-118.3	247.0	0.16 km	39 03 57	10.00	129.67	54.15
Grand Junction	CO	Public Broadcasting of Col	67.0		0.10 Mi	108 44 45		363.0	2144	BLED860327KH
209A	KZMU	LI CN	60.4	52.7	229.3	88.57 km	38 32 47	0.10	7.99	5.64
Moab	UT	Moab Public Radio	49.3		55.03 Mi	109 31 03		-177.0	1349	BLED920619KC
210A	KPRE.C	CP CN	183.3	188.7	72.3	207.92 km	39 38 08	1.50	4.40	13.84
Vail	CO	Public Broadcasting of Col	252.3		129.20 Mi	106 26 46		47.0	2960	BPED920611MJ

i.f. RELATIONSHIPS: NONE FOUND

- Nearest CH 6 Grade B =KREZTVat 158.97 km

FIGURE 9A
CHANNEL 209A PRECLUSION STUDY

CH# 209A - 89.7 MHz

INTERFERENCE CHECKS WITH PROPOSED STATION AT GRAND JUNCTION, CO at N. LAT. 39 03 59 W. LNG. 108 44 39

PWR = .1 kW H.A.A.T. = 380 M C.O.R. = 2166 M AMSL

Protected F(50-50) 60 dBu = 20.19 km

F(50-10) 40 dBu = 64.3 54 dBu = 30.21 80 dBu = 5.34 100 dBu = .7

CH#	CALL	TYPE	* IN *	* OUT *	BEARING	DISTANCE	LAT.	PWR(kW)	INT(km)	PRO(km)
CITY	STATE	LICENSEE			<---		LNG.	HAAT(M)	COR(M)	FILE #
206A	AP206	AP CN	106.8	98.5	33.7	130.17 km	40 02 31	100.00	3.15	30.97
Meeker	CO	White River Electric Assoc			213.7	80.88 Mi	107 54 15	-162.0	1934	910116MU
208C1	KPRN	LI CY	-99.9	-84.2	247.0	0.16 km	39 03 57	10.00	79.92	54.15
Grand Junction	CO	Public Broadcasting of Col			67.0	0.10 Mi	108 44 45	363.0	2144	BLED860327KH
209A	KZMU	LI CN	49.8	18.6	229.3	88.57 km	38 32 47	0.10	18.58	5.64
Moab	UT	Moab Public Radio			49.3	55.03 Mi	109 31 03	-177.0	1349	BLED920619KC
210A	KPRE.C	CP CN	167.1	163.9	72.3	207.92 km	39 38 08	1.50	20.64	13.84
Vail	CO	Public Broadcasting of Col			252.3	129.20 Mi	106 26 46	47.0	2960	BPED920611MJ
212A	KBUT	LI CN	133.2	146.7	98.0	154.50 km	38 52 19	0.25	1.12	7.13
Crested Butte	CO	Crested Butte Mtn Educ. Ra			278.0	96.00 Mi	106 58 44	-326.0	2722	BLED870102KA
212C3	KJOL	LI CN	-22.5	-39.5	254.2	0.23 km	39 03 57	1.50	2.50	39.03
Grand Junction	CO	Colorado Christian Univers			74.2	0.14 Mi	108 44 48	395.0	2194	BLED911227KA

i.f. RELATIONSHIPS: NONE FOUND

- Nearest CH 6 Grade B =KREZTVat 158.97 km

FIGURE 10A
CHANNEL 210A PRECLUSION STUDY

CH# 210A - 89.9 MHz

INTERFERENCE CHECKS WITH PROPOSED STATION AT GRAND JUNCTION, CO at N. LAT. 39 03 59 W. LNG. 108 44 39

PWR = .1 kW H.A.A.T. = 380 M C.O.R. = 2166 M AMSL

Protected F(50-50) 60 dBu = 20.19 km

F(50-10) 40 dBu = 64.3 54 dBu = 30.21 80 dBu = 5.34 100 dBu = .7

CH# CITY	CALL	TYPE STATE	* IN * LICENSEE	* OUT *	BEARING <---	DISTANCE	LAT. LNG.	PWR(kW) HAAT(M)	INT(km) COR(M)	PRO(km) FILE #
208C1 Grand Junction	KPRN	LI CO	CY Public Broadcasting of Col	-40.8 -59.3	247.0 67.0	0.16 km 0.10 Mi	39 03 57 108 44 45	10.00 363.0	20.75 2144	54.15 BLED860327KH
209A Moab	KZMU	LI UT	CN Moab Public Radio	60.4 52.7	229.3 49.3	88.57 km 55.03 Mi	38 32 47 109 31 03	0.10 -177.0	7.99 1349	5.64 BLED920619KC
210A Vail	KPRE.C	CP CO	CN Public Broadcasting of Col	136.3 129.8	72.3 252.3	207.92 km 129.20 Mi	39 38 08 106 26 46	1.50 47.0	51.47 2960	13.84 BPED920611MJ
212A Crested Butte	KBUT	LI CO	CN Crested Butte Mtn Educ. Ra	132.0 142.0	98.0 278.0	154.50 km 96.00 Mi	38 52 19 106 58 44	0.25 -326.0	2.29 2722	7.13 BLED870102KA
212C3 Grand Junction	KJOL	LI CO	CN Colorado Christian Univers	-32.7 -44.1	254.2 74.2	0.23 km 0.14 Mi	39 03 57 108 44 48	1.50 395.0	12.75 2194	39.03 BLED911227KA
213C Rock Springs	KUWZ.C	CPM WY	CY University of Wyoming	243.6 198.2	349.3 169.3	274.64 km 170.65 Mi	41 29 47 109 20 47	100.00 346.0	10.85 2364	75.79 BMPED930127IB
213C3 Carbondale	KDNK	LI CO	CN Carbondale Community Acces	103.1 85.5	71.3 251.3	124.36 km 77.27 Mi	39 25 35 107 22 48	0.22 862.0	1.03 3252	38.18 BLED930913KF

i.f. RELATIONSHIPS: NONE FOUND

- Nearest CH 6 Grade B =KREZTVat 158.97 km

FIGURE 11A
CHANNEL 211A PRECLUSION STUDY

CH# 211A - 90.1 MHz

INTERFERENCE CHECKS WITH PROPOSED STATION AT GRAND JUNCTION, CO at N. LAT. 39 03 59 W. LNG. 108 44 39

PWR = .1 kW H.A.A.T. = 380 M C.O.R. = 2166 M AMSL

Protected F(50-50) 60 dBu = 20.19 km

F(50-10) 40 dBu = 64.3 54 dBu = 30.21 80 dBu = 5.34 100 dBu = .7

CH#	CALL	TYPE	* IN *	* OUT *	BEARING	DISTANCE	LAT.	PWR(kW)	INT(km)	PRO(km)
CITY		STATE	LICENSEE		<---		LNG.	HAAT(M)	COR(M)	FILE #
208C1	KPRN	LI CY	-25.3	-54.7	247.0	0.16 km	39 03 57	10.00	5.28	54.15
Grand Junction		CO	Public Broadcasting of Col		67.0	0.10 Mi	108 44 45	363.0	2144	BLED860327KH
209A	KZMU	LI CN	66.6	77.6	229.3	88.57 km	38 32 47	0.10	1.82	5.64
Moab		UT	Moab Public Radio		49.3	55.03 Mi	109 31 03	-177.0	1349	BLED920619KC
210A	KPRE.C	CP CN	167.1	163.9	72.3	207.92 km	39 38 08	1.50	20.64	13.84
Vail		CO	Public Broadcasting of Col		252.3	129.20 Mi	106 26 46	47.0	2960	BPED920611MJ
212A	KBUT	LI CN	124.1	117.2	98.0	154.50 km	38 52 19	0.25	10.20	7.13
Crested Butte		CO	Crested Butte Mtn Educ. Ra		278.0	96.00 Mi	106 58 44	-326.0	2722	BLED870102KA
212C3	KJOL	LI CN	-79.2	-69.0	254.2	0.23 km	39 03 57	1.50	59.21	39.03
Grand Junction		CO	Colorado Christian Univers		74.2	0.14 Mi	108 44 48	395.0	2194	BLED911227KA
213C	KUWZ.C	CPM CY	218.0	193.5	349.3	274.64 km	41 29 47	100.00	36.50	75.79
Rock Springs		WY	University of Wyoming		169.3	170.65 Mi	109 20 47	346.0	2364	BMPED930127IB
213C3	KDNK	LI CN	95.4	80.8	71.3	124.36 km	39 25 35	0.22	8.73	38.18
Carbondale		CO	Carbondale Community Acces		251.3	77.27 Mi	107 22 48	862.0	3252	BLED930913KF

i.f. RELATIONSHIPS: NONE FOUND

- Nearest CH 6 Grade B =KREZTVat 158.97 km

FIGURE 12A
CHANNEL 212A PRECLUSION STUDY

CH# 212A - 90.3 MHz

INTERFERENCE CHECKS WITH PROPOSED STATION AT GRAND JUNCTION, CO at N. LAT. 39 03 59 W. LNG. 108 44 39

PWR = .1 kW H.A.A.T. = 380 M C.O.R. = 2166 M AMSL

Protected F(50-50) 60 dBu = 20.19 km

F(50-10) 40 dBu = 64.3 54 dBu = 30.21 80 dBu = 5.34 100 dBu = .7

CH#	CALL	TYPE	* IN *	* OUT *	BEARING	DISTANCE	LAT.	PWR(kW)	INT(km)	PRO(km)
CITY	STATE	LICENSEE			<---		LNG.	HAAT(M)	COR(M)	FILE #
209A	KZMU	LI CN	67.7	82.2	229.3	88.57 km	38 32 47	0.10	0.70	5.64
Moab	UT	Moab Public Radio			49.3	55.03 Mi	109 31 03	-177.0	1349	BLED920619KC
210A	KPRE.C	CP CN	183.3	188.7	72.3	207.92 km	39 38 08	1.50	4.40	13.84
Vail	CO	Public Broadcasting of Col			252.3	129.20 Mi	106 26 46	47.0	2960	BPED920611MJ
212A	KBUT	LI CN	110.4	83.1	98.0	154.50 km	38 52 19	0.25	23.88	7.13
Crested Butte	CO	Crested Butte Mtn Educ. Ra			278.0	96.00 Mi	106 58 44	-326.0	2722	BLED870102KA
212C3	KJOL	LI CN	-121.5	-103.1	254.2	0.23 km	39 03 57	1.50	101.59	39.03
Grand Junction	CO	Colorado Christian Univers			74.2	0.14 Mi	108 44 48	395.0	2194	BLED911227KA
213C	KUWZ.C	CPM CY	143.5	168.6	349.3	274.64 km	41 29 47	100.00	110.93	75.79
Rock Springs	WY	University of Wyoming			169.3	170.65 Mi	109 20 47	346.0	2364	BMPED930127IB
213C3	KDNK	LI CN	46.7	56.0	71.3	124.36 km	39 25 35	0.22	57.49	38.18
Carbondale	CO	Carbondale Community Acces			251.3	77.27 Mi	107 22 48	862.0	3252	BLED930913KF
215A	KVNF	LI CN	72.2	82.3	102.9	96.19 km	38 52 20	3.00	3.84	13.22
Paonia	CO	North Fork Valley Public R			282.9	59.77 Mi	107 39 45	-52.0	2072	BLED910325KA

i.f. RELATIONSHIPS: NONE FOUND

- Nearest CH 6 Grade B =KREZTVat 158.97 km

FIGURE 13A
CHANNEL 213A PRECLUSION STUDY

CH# 213A - 90.5 MHz

INTERFERENCE CHECKS WITH PROPOSED STATION AT GRAND JUNCTION, CO at N. LAT. 39 03 59 W. LNG. 108 44 39

PWR = .1 kW H.A.A.T. = 380 M C.O.R. = 2166 M AMSL

Protected F(50-50) 60 dBu = 20.19 km

F(50-10) 40 dBu = 64.3 54 dBu = 30.21 80 dBu = 5.34 100 dBu = .7

CH#	CALL	TYPE	* IN *	* OUT *	BEARING	DISTANCE	LAT.	PWR(kW)	INT(km)	PRO(km)
CITY	STATE	LICENSEE			<---		LNG.	HAAT(M)	COR(M)	FILE #
210A	KPRE.C	CP CN	185.0	193.4	72.3	207.92 km	39 38 08	1.50	2.72	13.84
Vail	CO	Public Broadcasting of Col			252.3	129.20 Mi	106 26 46	47.0	2960	BPED920611MJ
212A	KBUT	LI CN	124.1	117.2	98.0	154.50 km	38 52 19	0.25	10.20	7.13
Crested Butte	CO	Crested Butte Mtn Educ. Ra			278.0	96.00 Mi	106 58 44	-326.0	2722	BLED870102KA
212C3	KJOL	LI CN	-79.2	-69.0	254.2	0.23 km	39 03 57	1.50	59.21	39.03
Grand Junction	CO	Colorado Christian Univers			74.2	0.14 Mi	108 44 48	395.0	2194	BLED911227KA
213C	KUWZ.C	CPM CY	76.9	134.6	349.3	274.64 km	41 29 47	100.00	177.56	75.79
Rock Springs	WY	University of Wyoming			169.3	170.65 Mi	109 20 47	346.0	2364	BMPE9301271B
213C3	KDNK	LI CN	1.8	21.9	71.3	124.36 km	39 25 35	0.22	102.36	38.18
Carbondale	CO	Carbondale Community Acces			251.3	77.27 Mi	107 22 48	862.0	3252	BLED930913KF
215A	KVNF	LI CN	71.9	77.6	102.9	96.19 km	38 52 20	3.00	4.13	13.22
Paonia	CO	North Fork Valley Public R			282.9	59.77 Mi	107 39 45	-52.0	2072	BLED910325KA
216A	KWSB	LI CN	149.6	159.3	110.7	170.57 km	38 31 22	0.14	0.81	10.61
Gunnison	CO	Western State College of C			290.7	105.99 Mi	106 54 28	91.0	2627	BLED850430LR

i.f. RELATIONSHIPS: NONE FOUND

- Nearest CH 6 Grade B =KREZTVat 158.97 km